

ABSTRACT OF THE DISCLOSURE

A phosphor screen comprises an inorganic phosphor capable of absorbing X-rays and emitting electromagnetic radiation having a wavelength greater than 300 nm. The phosphor is disposed on a support that has a reflective substrate comprising a continuous poly(lactic acid) first phase and a second phase dispersed within the continuous poly(lactic acid) first phase. The second phase contains microvoids that in turn contain barium sulfate particles. This support provides improved reflectivity particularly at shorter wavelengths.